**Microsoft .NET Technical Experience Evaluation Questionnaire**

Full Name:

Date:

Please note that the completion of this assessment/questionnaire should solely rely on your own experiences, knowledge, and capabilities. The use of ChatGPT or any AI assistance is strongly discouraged. Any indication of AI usage may result in the termination of the hiring process.

**Q1)** Name three software projects you took part in the last three years? Please mention your role in the project as well as the project duration. (Please write three projects at most.)

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| **Name of the project** | **Date/ Duration** | **Your role** | **Client** | **Team Size** | **Lines of code you developped (approx)** |
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**Q2)** Which technologies did you use in the projects you mentioned above?

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| --- | --- | --- | --- | --- |
| **Name of the project** | **Prog. language** | **Database** | **Operating system** | **Reporting system** |
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**Q3)** List projects where you have used AngularJS with project duration and your role in project.

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| --- | --- | --- |
| **Name of the project** | **Duration** | **Role** |
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**Q4)** Have you ever worked in a project where there were branches of development in a source control application? If yes, what was the name of the project, how many branches were in use?

**Q5)** Have you ever integrated with a legacy application other than using web services and stored procedures? If yes, please indicate the project and the legacy systems you integrated with and mention the integration methodolodgy and protocols used.

**Q6)** Did you ever use cryptography in your projects? If yes, which algorithms did you use, for what purpose and what was your key management strategy such as the storage place for keys?

**Q7)** What are the things you would do or avoid doing for improving performance of a web application? Please list top 5 most important things for you.

**Q8)** What are the things you would do or avoid doing for improving security of a web application? Please list top 5 most important things for you.

**Q9)** Assume that you are developing a web application that shows currency exchange rates for a bank web site. The rates are stored in an IBM Mainframe in the bank and rates are available through web services. Each time a user accesses the rates page, the page makes a request to the mainframe. This generates too much load on the mainframe. Especially most of the time the rates delivered is the same. But at the same time rates may fluctuate within the day and if rates have changed the web page should not display the cached values but make another request to the web service. The rates table at mainframe supports triggers where each update to the rates table can invoke a trigger where the trigger may further call a web service. How would you design such a caching architecture and make sure it is invalidated on rate changes? Please explain by drawing a diagram.